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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,378	09/04/2001	In Haeng Cho	K-0319	1269

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FLESHNER & KIM, LLP  
P.O. BOX 221200  
CHANTILLY, VA 20153

EXAMINER
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PERRIN, JOSEPH L

ART UNIT	PAPER NUMBER
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1746

DATE MAILED: 12/03/2003

7

Please find below and/or attached an Office communication concerning this application or proceeding.

c/o 7

<b>Office Action Summary</b>	<b>Application No.</b> 09/944,378	<b>Applicant(s)</b> CHO, IN HAENG	
	<b>Examiner</b> Joseph L. Perrin, Ph.D.	<b>Art Unit</b> 1746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 October 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) 7-30 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6 is/are rejected.
- 7) ☒ Claim(s) 5 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 September 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All    b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> . | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election with traverse of Group I (claims 1-6) in Paper No. 6 is acknowledged. The traversal is on the ground(s) that the search and examination of the entire application could be made without serious burden. This is not found persuasive because the Groups I & II do not require the same search. For instance, the method of Group II does not require the agitation means of the apparatus of Group I, namely a rotating tank. Moreover, a washing machine and method for changing system data are of significantly different status in the art, as shown by their different classification. Thus, searching both Groups, each having limitations not required by the other, would create a serious burden for this Examiner.
2. The requirement is still deemed proper and is therefore made FINAL.

### ***Priority***

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Specification***

4. Applicant is reminded of the proper language and format for an abstract of the disclosure:

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract

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on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The abstract of the disclosure is objected to because the abstract exceeds 150 words in length. Correction is required. See MPEP § 608.01(b).

### ***Claim Objections***

6. Claim 5 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Re claim 5, the claim is directed to a future intended use, e.g. how the washing machine computer performs data exchange, and thus, fails to provide further structural limitation to the claimed apparatus. Accordingly, claim 5 has not been further treated on the merits.

### ***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1, 4 & 6 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,647,231 to Payne *et al.* (hereinafter "Payne").

Re claims 1 & 6, Payne discloses a washing machine with motor 46 electronically controllable via various washing parameters including spinning (inherently disclosing a rotatable inner tank in a machine/outer tank), filling (inherently disclosing water supply means) and draining (inherently disclosing a draining means) (see entire reference of Payne, for instance, col. 2, lines 15-53; col. 2, lines 58-59; col. 3, line 29). Payne further discloses a microcomputer/microcontroller 22 for activating various appliance elements including the motor (for instance, Figures 1-2 and col. 6, lines 29-54), input and display sections (for instance, col. 7, lines 36-39; col. 9, line 6), interface section 30 (for instance, col. 7, lines 3-6) and RAM or ROM memory 23 (for instance, Figure 1; col. 6, lines 31-33).

Re claim 4, Payne further discloses downloading a plurality of laundry parameters to the washing machine memory from a computer (see, for instance, col. 2, lines 19-23; col. 4, lines 11-14).

Recitation of Payne reads on applicant's claimed invention.

### ***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Payne in view of US 5,897,671 to Newman *et al.* (hereinafter "Newman").

Recitation of Payne is repeated here from above. Although Payne does disclose using RAM or ROM memory, and storing a plurality of laundry parameters (programs) in the memory, Payne does not expressly disclose using flash memory.

Newman teaches that it is known to use non-volatile memory such as ROM, flash memory, and RAM to store data processing programs in a computer-controlled washing machine (see, for instance, col. 4, lines 1-3 & 14-15). Therefore, the position is taken that a person of ordinary skill in the art at the time the invention was made would have been motivated to substitute the conventional RAM or ROM in the washing machine of Payne with flash memory disclosed in the washing machine of Newman to utilize the well-known advantages of flash memory such as easy and fast storage, and partial

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erasing/rewriting in the memory due to the plurality of blocks/sectors in flash memory.

***Conclusion***

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US 6,241,782 to Vande Haar, which discloses a washing machine with external computer control.

US 5,424,940 to Ousborne, which discloses a computer controlled laundry facility.

US 5,234,827 to Kiuchi *et al.*, which discloses a washing machine with computer control device.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is (703)305-0626. The examiner can normally be reached on M-F 7:30-5:00, except alternate Fridays.

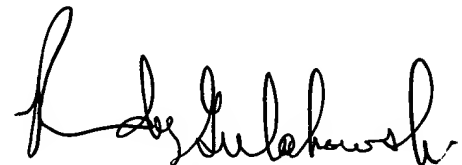
14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (703)308-4333. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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15. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Joseph L. Perrin, Ph.D.  
Examiner  
Art Unit 1746

jlj

A handwritten signature in black ink, appearing to read "Randy Gulako".

RANDY GULAKO, ESQ.  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700